

What is claimed is :

1. An additive system for polyester polymers
5 which comprises effective slip-promoting amounts of
(i) a fatty acid amide selected from the group
consisting of oleyl palmitamide, ethylene bis
stearamide, ethylene bis oleamide, and stearyl
erucamide; (ii) a partially or fully calcined porous
10 poly(methylsilsequioxane); and (iii) a stabilizer
comprising a primary and a secondary antioxidant
wherein the primary and secondary antioxidant are
present in a ratio of 1:4.
- 15 2. The additive system of Claim 1 in which the
primary antioxidant is selected from hindered phenols,
aryl amines, and multifunctional hindered phenols, and
the secondary antioxidant is selected from phosphorous
or sulphur-containing compounds, phosphites or
20 phosphite esters.
3. The additive system of Claim 2 in which the
primary antioxidant is tetrakis[methylene(3,5-
ditert.butyl-4-hydroxy-hydrocinnamate)] methane, and
25 the secondary antioxidant is (2,4-di-
tert.butylphenyl)phosphite.
4. A method for reducing static friction effect
between molded articles of PET homo- and co-polymers
30 which comprising incorporating into the polymer, at any
point before molding effective slip-promoting amounts
of (i) a fatty acid amide selected from the group
consisting of oleyl palmitamide, ethylene bis
stearamide, ethylene bis oleamide, and stearyl
35 erucamide; (ii) a partially or fully calcined porous
poly(methylsilsequioxane); and (iii) a stabilizer
comprising a primary and a secondary antioxidant

wherein the primary and secondary antioxidant are present in a ratio of 1:4.

5 5. The method of Claim 4 in which the primary antioxidant is tetrakis[methylene(3,5-ditert.butyl-4-hydroxy-hydrocinnamate)] methane, and the secondary antioxidant is (2,4-di-tert.butylphenyl)phosphite.

10 ~~6.~~ A method for producing a PET molded article having a reduced sticking effect which comprises at any point before molding the steps of (1) incorporating into the PET effective slip-promoting amounts of (i) a fatty acid amide selected from the group consisting of
15 oleyl palmitamide, ethylene bis stearamide, ethylene bis oleamide, and stearyl erucamide; (ii) a partially or fully calcined porous poly(methylsilsequioxane); and (iii) a stabilizer comprising a primary and a secondary antioxidant wherein the primary and secondary
20 antioxidant are present in a ratio of 1:4, and then (2) molding the polymer.

 7. The method of Claim 6 in which the primary antioxidant is tetrakis[methylene(3,5-ditert.butyl-4-
25 hydroxy-hydrocinnamate)] methane, and the secondary antioxidant is (2,4-di-tert.butylphenyl)phosphite.

 8. The method of Claim 6 in which the fatty acid amide is stearyl erucamide at a concentration in the
30 molded article of 0.2 wt%, the partially or fully calcined porous poly(methylsilsequioxane) is present in the molded article at a concentration of 30ppm, the primary antioxidant is present in the molded article at a concentration of 0.28wt%, and the secondary
35 antioxidant is present in the molded article at a concentration of 0.08wt%.

9. The method of Claim 7 in which the fatty acid
amide is stearyl erucamide at a concentration in the
5 molded article of 0.2 wt%, the partially or fully
calcined porous poly(methylsilsequioxane) is present in
the molded article at a concentration of 30ppm, the
primary antioxidant is present in the molded article at
a concentration of 0.28wt%, and the secondary
10 antioxidant is present in the molded article at a
concentration of 0.08wt%.

10. A PET molded article produced according to
Claim 6 which contains a slip promoting additive system
15 which comprises 0.2wt% stearyl erucamide, 30ppm
Tospearl, 0.28wt% tetrakis[methylene(3,5-ditert.butyl-
4-hydroxy-hydrocinnamate)] methane, and 0.08wt% (2,4-
di-tert.butylphenyl)phosphite.

20 ~~11.~~ A slip promoting additive system for use in
preparing a PET masterbatch which comprises 0.1 to 20.0
wt% stearyl erucamide, 10ppm to 600ppm of a partially
or fully calcined porous poly(methylsilsequioxane),
0.14 to 28.0 wt% tetrakis[methylene(3,5-ditert.butyl-4-
25 hydroxy-hydrocinnamate)] methane, and 0.048 to 8.0wt%
(2,4-di-tert.butylphenyl)phosphite.